



SEQUENCE LISTING

<110> I, Kenneth
Mach, Robert
Childers, Steven
Shelness, Gregory
Wang, Li-Ming

<120> METHODS AND COMPOSITIONS UTILIZING AN ALTERNATIVE SPLICE VARIANT OF THE SIGMA-1 RECEPTOR

<130> 9151.6

<140> 09/823,069

<141> 2001-03-30

<150> US 60/193,694

<151> 2000-03-31

<160> 6

<170> PatentIn version 3.0

<210> 1

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(579)

<400> 1

atg	cag	tgg	gcc	gtg	ggc	cgg	cgg	tgg	gcg	tgg	gcc	gcg	ctg	ctc	ctg	48
Met	Gln	Trp	Ala	Val	Gly	Arg	Arg	Trp	Ala	Trp	Ala	Ala	Leu	Leu	Leu	
1				5				10					15			

gct	gtc	gca	gcg	gtg	ctg	acc	cag	gtc	gtc	tgg	ctc	tgg	ctg	ggt	acg	96
Ala	Val	Ala	Ala	Val	Leu	Thr	Gln	Val	Val	Trp	Leu	Trp	Leu	Gly	Thr	
			20					25					30			

cag	agc	ttc	gtc	ttc	cag	cgc	gaa	gag	ata	gcg	cag	ttg	gcg	cgg	cag	144
Gln	Ser	Phe	Val	Phe	Gln	Arg	Glu	Glu	Ile	Ala	Gln	Leu	Ala	Arg	Gln	
		35					40					45				

tac	gct	ggg	ctg	gac	cac	gag	ctg	gcc	ttc	tct	cgt	ctg	atc	gtg	gag	192
Tyr	Ala	Gly	Leu	Asp	His	Glu	Leu	Ala	Phe	Ser	Arg	Leu	Ile	Val	Glu	
	50				55						60					

ctg	cgg	cgg	ctg	cac	cca	ggc	cac	gtg	ctg	ccc	gac	gag	gag	ctg	cag	240
Leu	Arg	Arg	Leu	His	Pro	Gly	His	Val	Leu	Pro	Asp	Glu	Glu	Leu	Gln	
65				70				75						80		

tgg	gtg	ttc	gtg	aat	gcg	ggt	ggc	tgg	atg	ggc	gcc	atg	tgc	ctt	ctg	288
Trp	Val	Phe	Val	Asn	Ala	Gly	Gly	Trp	Met	Gly	Ala	Met	Cys	Leu	Leu	
				85				90						95		

09823069.072001

cac gcc tcg ctg tcc gag tat gtg ctg ctc ttc ggc acc gcc ttg ggc His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly Thr Ala Leu Gly 100 105 110	336
tcc cgc ggc cac tcg ggg gag acg gta gta cac ggg cct ggt gag gca Ser Arg Gly His Ser Gly Glu Thr Val Val His Gly Pro Gly Glu Ala 115 120 125	384
aca gct gtg gag tgg ggg cca aac aca tgg atg gtg gag tac ggc cgg Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu Tyr Gly Arg 130 135 140	432
ggc gtc atc cca tcc acc ctg gcc ttc gcg ctg gcc gac act gtc ttc Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp Thr Val Phe 145 150 155 160	480
agc acc cag gac ttc ctc acc ctc ttc tat act ctt cgc tcc tat gct Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg Ser Tyr Ala 165 170 175	528
cgg ggc ctc cgg ctt gag ctc acc acc tac ctc ttt ggc cag gac cct Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly Gln Asp Pro 180 185 190	576
tga	579
<210> 2	
<211> 192	
<212> PRT	
<213> Homo sapiens	
<400> 2	
Met Gln Trp Ala Val Gly Arg Arg Trp Ala Trp Ala Ala Leu Leu Leu 1 5 10 15	
Ala Val Ala Ala Val Leu Thr Gln Val Val Trp Leu Trp Leu Gly Thr 20 25 30	
Gln Ser Phe Val Phe Gln Arg Glu Glu Ile Ala Gln Leu Ala Arg Gln 35 40 45	
Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg Leu Ile Val Glu 50 55 60	
Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp Glu Glu Leu Gln 65 70 75 80	
Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala Met Cys Leu Leu 85 90 95	

His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly Thr Ala Leu Gly
 100 105 110

Ser Arg Gly His Ser Gly Glu Thr Val Val His Gly Pro Gly Glu Ala
 115 120 125

Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu Tyr Gly Arg
 130 135 140

Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp Thr Val Phe
 145 150 155 160

Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg Ser Tyr Ala
 165 170 175

Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly Gln Asp Pro
 180 185 190

<210> 3
 <211> 579
 <212> DNA
 <213> Mus musculus

<220>
 <221> CDS
 <222> (1)..(579)

<400> 3
 atg ccg tgg gcc gcg gga cgg cgg tgg gca tgg atc acc ctg att ctg 48
 Met Pro Trp Ala Ala Gly Arg Arg Trp Ala Trp Ile Thr Leu Ile Leu
 1 5 10 15
 act att atc gca gtg ctg atc cag gcc gcc tgg ttg tgg ctg ggc act 96
 Thr Ile Ile Ala Val Leu Ile Gln Ala Ala Trp Leu Trp Leu Gly Thr
 20 25 30
 caa aac ttc gtc ttc tct aga gaa gaa ata gcg cag ctt gct cga cag 144
 Gln Asn Phe Val Phe Ser Arg Glu Glu Ile Ala Gln Leu Ala Arg Gln
 35 40 45
 tat gcg ggg ctg gac cat gag ctt gcc ttc tct cgg ctg atc gtg gag 192
 Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg Leu Ile Val Glu
 50 55 60
 ctg cgg agg ctg cac cca ggc cac gtg ctg ccg gat gag gag ctg cag 240
 Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp Glu Glu Leu Gln
 65 70 75 80
 tgg gta ttt gtg aac gcg ggc ggc tgg atg ggc gcc atg tgt att ctg 288
 Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala Met Cys Ile Leu

85										90					95					
cac gcc tcg ctg tct gag tac gtg ctg ctc ttc ggc acc gcc ctg ggc	336																			
His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly Thr Ala Leu Gly																				
100 105 110																				
tcc cat ggc cat tcg gga gag aca gtt gta cac ggg cct gga gaa gca	384																			
Ser His Gly His Ser Gly Glu Thr Val Val His Gly Pro Gly Glu Ala																				
115 120 125																				
acg gct ctg gag tgg gga cca aac acg tgg atg gtg gag tac ggc cgg	432																			
Thr Ala Leu Glu Trp Gly Pro Asn Thr Trp Met Val Glu Tyr Gly Arg																				
130 135 140																				
ggg gtt att ccg tct acc ctg ttc ttt gca cta gcc gac acc ttc ttc	480																			
Gly Val Ile Pro Ser Thr Leu Phe Phe Ala Leu Ala Asp Thr Phe Phe																				
145 150 155 160																				
ggc acc cag gac tac ctc aca ctc ttc tat acc ctt cgg gcc tat gcc	528																			
Gly Thr Gln Asp Tyr Leu Thr Leu Phe Tyr Thr Leu Arg Ala Tyr Ala																				
165 170 175																				
cgg ggc ctc cgg ctt gag ctt acc acc tac ctc ttt ggc caa gac tcc	576																			
Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly Gln Asp Ser																				
180 185 190																				
tga	579																			
<210> 4																				
<211> 192																				
<212> PRT																				
<213> Mus musculus																				
<400> 4																				
Met Pro Trp Ala Ala Gly Arg Arg Trp Ala Trp Ile Thr Leu Ile Leu																				
1 5 10 15																				
Thr Ile Ile Ala Val Leu Ile Gln Ala Ala Trp Leu Trp Leu Gly Thr																				
20 25 30																				
Gln Asn Phe Val Phe Ser Arg Glu Glu Ile Ala Gln Leu Ala Arg Gln																				
35 40 45																				
Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg Leu Ile Val Glu																				
50 55 60																				
Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp Glu Glu Leu Gln																				
65 70 75 80																				
Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala Met Cys Ile Leu																				

09823069-072004

85

90

95

His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly Thr Ala Leu Gly
100 105 110

Ser His Gly His Ser Gly Glu Thr Val Val His Gly Pro Gly Glu Ala
115 120 125

Thr Ala Leu Glu Trp Gly Pro Asn Thr Trp Met Val Glu Tyr Gly Arg
130 135 140

Gly Val Ile Pro Ser Thr Leu Phe Phe Ala Leu Ala Asp Thr Phe Phe
145 150 155 160

Gly Thr Gln Asp Tyr Leu Thr Leu Phe Tyr Thr Leu Arg Ala Tyr Ala
165 170 175

Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly Gln Asp Ser
180 185 190

<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(31)
<223> Synthetic Oligonucleotide Primer.

<400> 5
gaacgaattc agaagtcggt gggccgcggg a

31

<210> 6
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> (1)..(31)
<223> Synthetic Oligonucleotide Primer.

<400> 6
taacggtacc tcaggagtct tggccaaaga g

31